

Guogang Ren

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

3,273
citations

26
h-index

56
g-index

79
ext. papers

3,695
ext. citations

4.9
avg, IF

5.32
L-index

#	Paper	IF	Citations
75	Nano-CuO causes cell damage through activation of dose-dependent autophagy and mitochondrial lncCyt b-AS/ND5-AS/ND6-AS in SH-SY5Y cells. <i>Toxicology Mechanisms and Methods</i> , 2022 , 32, 37-48	3.6	2
74	Exploiting the antiviral potential of intermetallic nanoparticles. <i>Emergent Materials</i> , 2021 , 1-10	3.5	0
73	Metal-based nanoparticles for combating antibiotic resistance. <i>Applied Physics Reviews</i> , 2021 , 8, 041303	17.3	2
72	Exploitation of Antimicrobial Nanoparticles and Their Applications in Biomedical Engineering. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4520	2.6	11
71	Surface interactions and viability of coronaviruses. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20200798	7.98	21
70	Comparative Study of the Antimicrobial Effects of Tungsten Nanoparticles and Tungsten Nanocomposite Fibres on Hospital Acquired Bacterial and Viral Pathogens. <i>Nanomaterials</i> , 2020 , 10,	5.4	15
69	AVNP2 protects against cognitive impairments induced by C6 glioma by suppressing tumour associated inflammation in rats. <i>Brain, Behavior, and Immunity</i> , 2020 , 87, 645-659	16.6	6
68	Synergistic Antifungal Study of PEGylated Graphene Oxides and Copper Nanoparticles against. <i>Nanomaterials</i> , 2020 , 10,	5.4	14
67	A novel treatment strategy for preterm birth: Intra-vaginal progesterone-loaded fibrous patches. <i>International Journal of Pharmaceutics</i> , 2020 , 588, 119782	6.5	17
66	TRPC6-Mediated Ca Entry Essential for the Regulation of Nano-ZnO Induced Autophagy in SH-SY5Y Cells. <i>Neurochemical Research</i> , 2020 , 45, 1602-1613	4.6	3
65	Mechanical properties of 3-D printed truss-like lattice biopolymer non-stochastic structures for sandwich panels with natural fibre composite skins. <i>Composite Structures</i> , 2019 , 213, 220-230	5.3	32
64	Anti-fungal bandages containing cinnamon extract. <i>International Wound Journal</i> , 2019 , 16, 730-736	2.6	24
63	Co-Culture of Keratinocyte-Staphylococcus aureus on Cu-Ag-Zn/CuO and Cu-Ag-W Nanoparticle Loaded Bacterial Cellulose:PMMA Bandages. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800537	3.9	19
62	Investigation of vehicle ride height and diffuser ramp angle on downforce and efficiency. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019 , 233, 2139-2145	1.4	2
61	Impaired endogenous fibrinolysis at high shear using a point-of-care test in STEMI is associated with alterations in clot architecture. <i>Journal of Thrombosis and Thrombolysis</i> , 2019 , 47, 392-395	5.1	3
60	A Scale-up of Energy-Cycle Analysis on Processing Non-Woven Flax/PLA Tape and Triaxial Glass Fibre Fabric for Composites. <i>Journal of Manufacturing and Materials Processing</i> , 2019 , 3, 92	2.2	4
59	Synergistic Antibacterial Effects of Metallic Nanoparticle Combinations. <i>Scientific Reports</i> , 2019 , 9, 16074	4.9	92

58	Pretreatment-Etidronate Alleviates CoCl Induced-SH-SY5Y Cell Apoptosis via Decreased HIF-1 α and TRPC5 Channel Proteins. <i>Neurochemical Research</i> , 2019 , 44, 428-440	4.6	8
57	A comparison of methods to assess the antimicrobial activity of nanoparticle combinations on bacterial cells. <i>PLoS ONE</i> , 2018 , 13, e0192093	3.7	52
56	Effect of temperature on the mechanical properties of 3D-printed PLA tensile specimens. <i>Rapid Prototyping Journal</i> , 2018 , 24, 1337-1346	3.8	30
55	Etidronate-zinc Complex Ameliorated Cognitive and Synaptic Plasticity Impairments in 2-Vessel Occlusion Model Rats by Reducing Neuroinflammation. <i>Neuroscience</i> , 2018 , 390, 206-217	3.9	9
54	Gyrospon antimicrobial nanoparticle loaded fibrous polymeric filters. <i>Materials Science and Engineering C</i> , 2017 , 74, 315-324	8.3	24
53	Etidronate rescues cognitive deficits through improving synaptic transmission and suppressing apoptosis in 2-vessel occlusion model rats. <i>Journal of Neurochemistry</i> , 2017 , 140, 476-484	6	19
52	Characterisation of the Chemical Composition and Structural Features of Novel Antimicrobial Nanoparticles. <i>Nanomaterials</i> , 2017 , 7,	5.4	11
51	Neuroprotective Effects of Etidronate and 2,3,3-Trisphosphonate Against Glutamate-Induced Toxicity in PC12 Cells. <i>Neurochemical Research</i> , 2016 , 41, 844-54	4.6	20
50	A novel coping metal material CoCrCu alloy fabricated by selective laser melting with antimicrobial and antibiofilm properties. <i>Materials Science and Engineering C</i> , 2016 , 67, 461-467	8.3	28
49	Antibacterial Performance of Cu-Bearing Stainless Steel against Staphylococcus aureus and Pseudomonas aeruginosa in Whole Milk. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 445-451	9.1	25
48	Simulation and experimental study of rheological properties of CeO ₂ /water nanofluid. <i>International Nano Letters</i> , 2015 , 5, 1-7	5.7	9
47	Determination of Cu ²⁺ ions release rate from antimicrobial copper bearing stainless steel by joint analysis using ICP-OES and XPS. <i>Materials Technology</i> , 2015 , 30, B86-B89	2.1	24
46	Anti-biofilm formation of a novel stainless steel against Staphylococcus aureus. <i>Materials Science and Engineering C</i> , 2015 , 51, 356-61	8.3	22
45	Cu-bearing steel reduce inflammation after stent implantation. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 114	4.5	5
44	Molecular dynamics simulation study of rheological properties of CuO/water nanofluid. <i>Journal of Materials Science</i> , 2015 , 50, 4075-4082	4.3	19
43	Study on behaviour and mechanism of Cu ²⁺ ion release from Cu bearing antibacterial stainless steel. <i>Materials Technology</i> , 2015 , 30, B126-B132	2.1	31
42	Physio-chemical and antibacterial characteristics of pressure spun nylon nanofibres embedded with functional silver nanoparticles. <i>Materials Science and Engineering C</i> , 2015 , 56, 195-204	8.3	31
41	Cognitive deficits induced by multi-walled carbon nanotubes via the autophagic pathway. <i>Toxicology</i> , 2015 , 337, 21-9	4.4	33

40	Antibacterial Performance of a Cu-bearing Stainless Steel against Microorganisms in Tap Water. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 243-251	9.1	45
39	Hemp fibre as alternative to glass fibre in sheet moulding compound. Part 2 Impact properties. <i>Plastics, Rubber and Composites</i> , 2015 , 44, 291-298	1.5	6
38	A molecular dynamic investigation of viscosity and diffusion coefficient of nanoclusters in hydrocarbon fluids. <i>Computational Materials Science</i> , 2015 , 99, 242-246	3.2	18
37	The preparation and tribological properties of surface modified zinc borate ultrafine powder as a lubricant additive in liquid paraffin. <i>Tribology International</i> , 2014 , 70, 155-164	4.9	18
36	The Tribological Properties of Zinc Borate Ultrafine Powder as a Lubricant Additive in Sunflower Oil. <i>Tribology Transactions</i> , 2014 , 57, 425-434	1.8	27
35	Multi-walled carbon nanotube inhibits CA1 glutamatergic synaptic transmission in rat hippocampal slices. <i>Toxicology Letters</i> , 2014 , 229, 423-9	4.4	16
34	Rheology and pressurised gyration of starch and starch-loaded poly(ethylene oxide). <i>Carbohydrate Polymers</i> , 2014 , 114, 279-287	10.3	25
33	Multi-walled carbon nanotube increases the excitability of hippocampal CA1 neurons through inhibition of potassium channels in rat brain slices. <i>Toxicology Letters</i> , 2013 , 217, 121-8	4.4	23
32	Attenuated effect of tungsten carbide nanoparticles on voltage-gated sodium current of hippocampal CA1 pyramidal neurons. <i>Toxicology in Vitro</i> , 2013 , 27, 299-304	3.6	7
31	China: experience of radioactive waste (RAW) management 2013 , 697-725e		0
30	A Study of Tribological Properties of Water-Based Ceria Nanofluids. <i>Tribology Transactions</i> , 2013 , 56, 275-283	1.8	30
29	Effects of nanoparticle zinc oxide on spatial cognition and synaptic plasticity in mice with depressive-like behaviors. <i>Journal of Biomedical Science</i> , 2012 , 19, 14	13.3	66
28	Involvement of reactive oxygen species and high-voltage-activated calcium currents in nanoparticle zinc oxide-induced cytotoxicity in vitro. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	7
27	In vitro toxicity of multi-walled carbon nanotubes in C6 rat glioma cells. <i>NeuroToxicology</i> , 2012 , 33, 1128-34	7.4	74
26	Antimicrobial properties of electrically formed elastomeric polyurethane-copper oxide nanocomposites for medical and dental applications. <i>Methods in Enzymology</i> , 2012 , 509, 87-99	1.7	29
25	Inhibitory effect of tungsten carbide nanoparticles on voltage-gated potassium currents of hippocampal CA1 neurons. <i>Toxicology Letters</i> , 2012 , 209, 129-35	4.4	21
24	The possible mechanism of silver nanoparticle impact on hippocampal synaptic plasticity and spatial cognition in rats. <i>Toxicology Letters</i> , 2012 , 209, 227-31	4.4	74
23	Antimicrobial activity of nanoparticulate metal oxides against peri-implantitis pathogens. <i>International Journal of Antimicrobial Agents</i> , 2012 , 40, 135-9	14.3	155

22	Nano-Ag inhibiting action potential independent glutamatergic synaptic transmission but increasing excitability in rat CA1 pyramidal neurons. <i>Nanotoxicology</i> , 2012 , 6, 414-23	5.3	22
21	In vitro toxicity of nanosized copper particles in PC12 cells induced by oxidative stress. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	16
20	Mechanical properties of glass silicate based composites Effects of varying fibre volume fractions. <i>Advances in Applied Ceramics</i> , 2012 , 111, 113-119	2.3	3
19	The inhibitory effects of nano-Ag on voltage-gated potassium currents of hippocampal CA1 neurons. <i>Environmental Toxicology</i> , 2011 , 26, 552-8	4.2	26
18	Nano-CuO inhibited voltage-gated sodium current of hippocampal CA1 neurons via reactive oxygen species but independent from G-proteins pathway. <i>Journal of Applied Toxicology</i> , 2011 , 31, 439-45	4.1	29
17	Nano-zinc oxide damages spatial cognition capability via over-enhanced long-term potentiation in hippocampus of Wistar rats. <i>International Journal of Nanomedicine</i> , 2011 , 6, 1453-61	7.3	58
16	Fire reactions of ceramic and polymer moulding composites. <i>Advances in Applied Ceramics</i> , 2010 , 109, 328-337	2.3	3
15	Hemp fibre as alternative to glass fibre in sheet moulding compound Part 1 Influence of fibre content and surface treatment on mechanical properties. <i>Plastics, Rubber and Composites</i> , 2010 , 39, 268-276	1.5	18
14	A review of nanoparticle functionality and toxicity on the central nervous system. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 4, S411-22	4.1	173
13	Oxidative stress and apoptosis induced by nanosized titanium dioxide in PC12 cells. <i>Toxicology</i> , 2010 , 267, 172-7	4.4	178
12	Development of low cost ceramic moulding composites as fire barriers. <i>Advances in Applied Ceramics</i> , 2009 , 108, 319-324	2.3	1
11	In vitro study on influence of nano particles of CuO on CA1 pyramidal neurons of rat hippocampus potassium currents. <i>Environmental Toxicology</i> , 2009 , 24, 211-7	4.2	50
10	Action potential changes associated with the inhibitory effects on voltage-gated sodium current of hippocampal CA1 neurons by silver nanoparticles. <i>Toxicology</i> , 2009 , 264, 179-84	4.4	96
9	Influences of nanoparticle zinc oxide on acutely isolated rat hippocampal CA3 pyramidal neurons. <i>NeuroToxicology</i> , 2009 , 30, 220-30	4.4	129
8	Characterisation of copper oxide nanoparticles for antimicrobial applications. <i>International Journal of Antimicrobial Agents</i> , 2009 , 33, 587-90	14.3	1003
7	Determination of the complex permittivity of textiles and leather in the 1400 GHz millimetre-wave band using a free-wave transmittance only method. <i>IET Microwaves, Antennas and Propagation</i> , 2008 , 2, 606-614	1.6	20
6	Low cost ceramic moulding composites: materials and manufacturing technology. <i>Advances in Applied Ceramics</i> , 2008 , 107, 329-336	2.3	1
5	Potential impact of nanotechnology on the control of infectious diseases. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2008 , 102, 1-2	2	71

- 4 Fire Retardancy of Natural Fibre Reinforced Sheet Moulding Compound. *Applied Composite Materials*, **2007**, 14, 251-264 2 53
- 3 Mechanical properties of carbon-fibre reinforced silicate matrix composites. *Materials & Design*, **2007**, 28, 1547-1554 7
- 2 Low cost ceramic moulding composites: impact properties. *Advances in Applied Ceramics*, **2004**, 103, 158-164 4
- 1 Nanometals as Antimicrobials 327-350 3